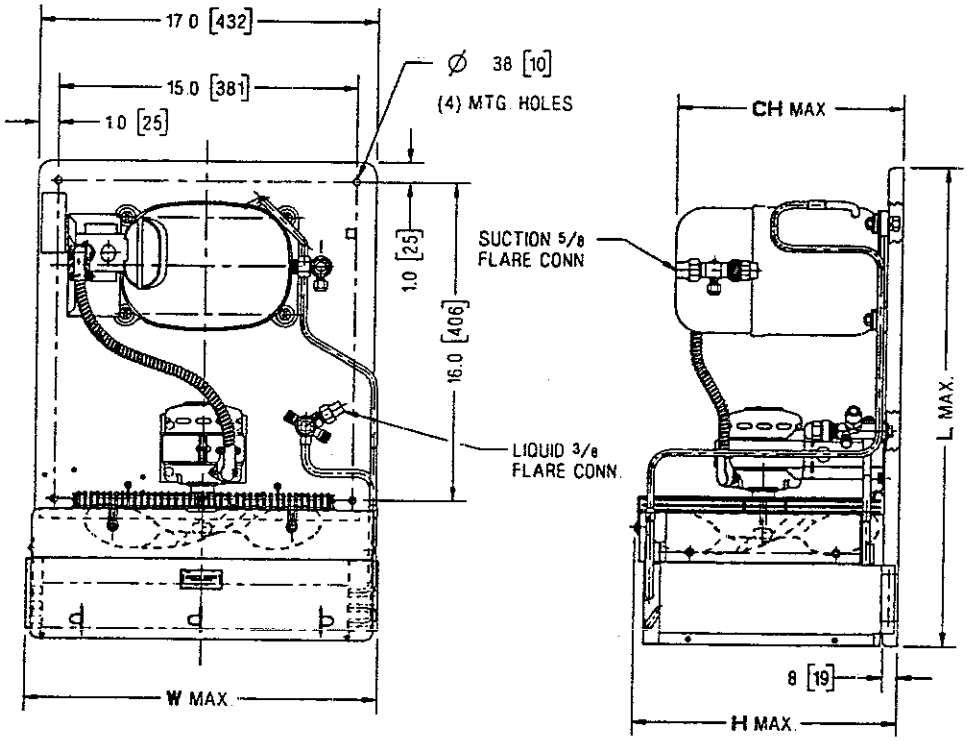
# TECUMSEH HERMETIC CONDENSING UNITS

**MODEL AJ4512YD (230/208-60-1)** **R134a** **1 HP** **AIR COOLED**




NOTE!
DIMENSIONING = INCHES [MILLIMETERS]

| Model | Dimensions | | | | *Line Connections | | Pumpdown 90°F | Air CFM | Oil Chg oz. | Gross Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suction | Liquid | 90% Full | | | |
| AJ4512YD | 24.3 | 17.8 | 13.4 | 11.6 | 5/8 F | 3/8 F | ---- | 610 | 26 | 98 |

*F=Flare, S=Solder, RF or RS = Rotolock Valve with Flare or Solder Connections

Factory Charge: 20 psig dry air - MUST BE EVACUATED

| Approved Evap. Range | | Ambient | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 90°F | | | 100°F | | | 110°F | | |
| °F | PSIG | BTUH | Watts | Head | BTUH | Watts | Head | BTUH | Watts | Head |
| 20 | 18.4 | 7250 | 1190 | 155 | 6800 | 1200 | 170 | 6350 | 1220 | 180 |
| 25 | 22.1 | 8200 | 1270 | 160 | 7650 | 1280 | 175 | 7200 | 1300 | 185 |
| 30 | 26.0 | 9100 | 1340 | 165 | 8600 | 1360 | 177 | 8100 | 1380 | 190 |
| 35 | 30.3 | 10100 | 1430 | 168 | 9550 | 1450 | 180 | 9000 | 1420 | 195 |
| 40 | 35.0 | 11100 | 1510 | 172 | 10500 | 1530 | 185 | 9950 | 1550 | 198 |
| 45 | 40.0 | 12200 | 1600 | 175 | 11500 | 1620 | 190 | 10900 | 1640 | 202 |
| 50 | 45.3 | 13300 | 1690 | 180 | 12600 | 1710 | 195 | 11950 | 1730 | 205 |
| 55 | 51.1 | 14500 | 1780 | 185 | 13800 | 1810 | 200 | 13000 | 1830 | 210 |

Based on 65°F return gas and 5°F subcooling.

# Model AJ4512YD

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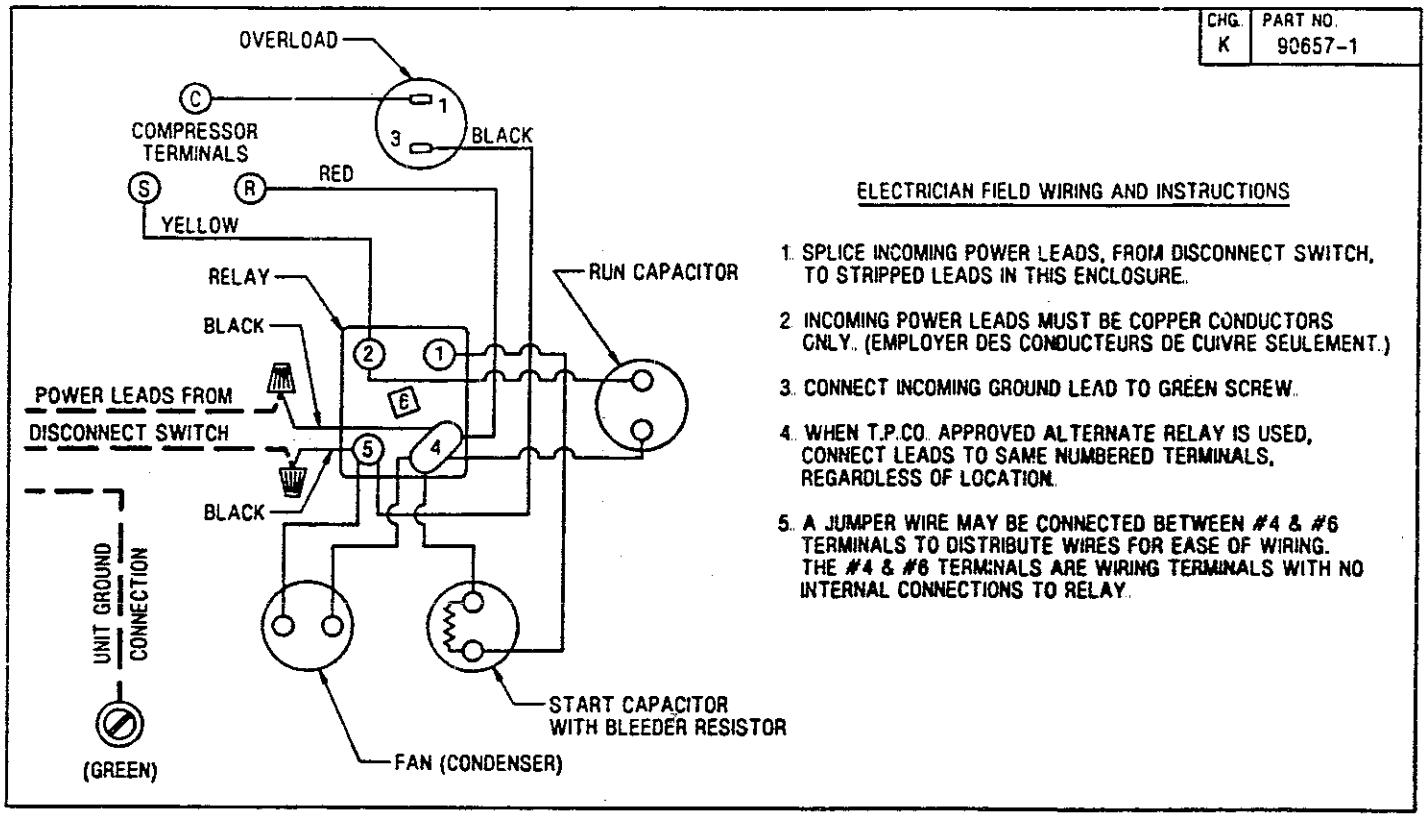
SPECIFICATIONS

| | |
|---|---|
| Nominal Voltage | 230/208-60-1 |
| Unit Bill of Material | 2A1194-1 |
| Voltage Range | 253 to 187 |
| Minimum Circuit Ampacity | 9.6 |
| Max. Fuse Size (Amps) | 15 |
| Compressor Model | AJ4512Y |
| Bill of Material | AJ137ET-193-P2 |
| RLA/LRA | 7.0/41.0 |
| Integral Relay Box | AE1170-5A |
| Overload | 8300MRAH28 |
| Relay | 820ARR3B91 |
| Relay Alternate | 8200128G82 |
| Start Capacitor | 855S250C10 |
| Rating | 88-106/250 |
| Run Capacitor | 85PR370E36 |
| Rating | 15/370 |
| Fan Motor | 81062-1B |
| Alternate | 810E026A74 |
| Fan Blade | 51563 |
| Fan Guard | 70769-6 |
| Condenser | 50802-6 |
| Condenser Shroud | 70736 |
| Unit Drawing | SU1893-25 |
| Schematic or Elect. Dwg. | 90657-1 |


CHG. K
PART NO. 90657-1
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
RED
YELLOW
BLACK
RELAY
BLACK
RUN CAPACITOR
POWER LEADS FROM DISCONNECT SWITCH
BLACK
UNIT GROUND CONNECTION
(GREEN)
START CAPACITOR WITH BLEEDER RESISTOR
FAN (CONDENSER)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.)
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.

U.L. Recognized (60 Hz. only) --- File #SA2372 ------- Card Guide #SGYU
CSA Certified ---------- Canadian File #12964C ------- USA File #8873C